From: Sent: Subject:	Wortman, Eric Fri 12/8/2017 3:18:05 PM RE: Syn Minor NSR Permit Applications - Multiple Facilities on U&O Reservation
Thanks N	atalie.
the permi	nd the supporting emissions information for the dehydrators at Bitter Creek so I can include it in t docket. Your email yesterday did not contain the attachment. I imagine the internal routing any permits will take a few weeks, so I anticipate public notice sometime in January.
Нарру Но	olidays.
Eric	
Sent: Thu To: Worth Cc: Smith	nlhausen, Natalie [mailto:Natalie.Ohlhausen@anadarko.com] nrsday, December 7, 2017 4:24 PM man, Eric <wortman.eric@epa.gov> n, Claudia <smith.claudia@epa.gov> RE: Syn Minor NSR Permit Applications - Multiple Facilities on U&amp;O Reservation</smith.claudia@epa.gov></wortman.eric@epa.gov>
Eric,	
I provided	d responses in blue below. Please let me know if you have any questions.
Thank yo	u,
Natalie (	Ohlhausen
Direct: 7	20-929-6498
Mobile:	281-785-8929

Ohlhausen, Natalie[Natalie.Ohlhausen@anadarko.com]

To:

Sent: Friday, December 01, 2017 12:18 PM To: Ohlhausen, Natalie < Natalie.Ohlhausen@anadarko.com > Cc: Smith, Claudia < Smith. Claudia @epa.gov > Subject: Syn Minor NSR Permit Applications - Multiple Facilities on U&O Reservation Hi Natalie, In addition to questions I sent you on 11/15 for the Sage Grouse CS syn minor permit application, I have reviewed the permit applications for several other actions and have a few questions. It would be great to get these sometime next week if possible, but no later than Friday, December 15th. Once I have this information, I can finalize the proposed permits and start preparing for public notice. I can be reached via email or at 617-918-1624 with any questions. Thanks. -Eric Bitter Creek Compressor Station • • • • Appendix D of your application does not propose any VOC requirements for the two lowemission dehydrators at the facility. I assume you want the permit to include the enforceable restrictions for the two dehydrators at the facility (similar to White River and the CD). Please verify. – The dehy details were excluded in error. We do need enforceable restrictions for the two low emission dehys at Bitter Creek. I have attached the calculation pages for those units. Please let me know I you need more information. • Dease provide the MMscfd capacity for each of the dehydrators. The application did not include the emissions unit detail sheets for the two dehydrators. Each dehy is 70 MMscf sentence or two about how these units fit in to the facility operations that I can include in the process description. Please verify that there are no emissions associated with these units (nothing in PTE tables). Bitter Creek compressor station has six gas to liquid H2S scrubbers. Each scrubber consists of a vertical vessel where gas is introduced to a H2S scavenger liquid that removes H2S from the gas stream prior to it being sent to the a gas plant. There is no PTE associated with these scrubbers.

• □ □ □ □ □ □ □ Please provide the capacity of the three condensate/produced water tanks. The tank size is not in the application. Additionally, the process description states that condensate is sent to the blowcase system and injected into the discharge line, but also states condensate is stored in the produced water tanks. Also, the facility diagram for the facility indicates there are 3 produced water tanks and 3 liquids

From: Wortman, Eric [mailto:Wortman.Eric@epa.gov]

storage tanks (six total tanks). Can you clarify the liquids storage operations at the facility? Bitter Creek compressor station has 3 400bbl condensate storage tanks. Additionally, there is a blowcase system that allows low pressure condensate to be pressurized and injected into a pipeline. Condensate can either be stored or sent through the blowcase.

North East Compressor Station	
• □ □ □ □ □ □ Please provide the capacity of the 2 condensate/produced water tanks. in the application. Each tank is 400bbl	The tank size is no
North Compressor Station	
• • • • Please provide the capacity of the 2 condensate/produced water tanks.	The tank size is no

in the application. Additionally, the process description states that condensate is sent to the blowcase system and injected into the discharge line, but also states it is stored in the produced water tanks. Please clarify this discrepancy. – Each tank is 400bbl. Similar to the Bitter Creek station, North station has both condensate tanks and a blowcase system. Condensate can be stored or sent through the blowcase.

## Archie Bench Compressor Station

• DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
not in the application. Additionally, the process description states that condensate is sent to the blowcase
system and injected into the discharge line, but also states it is stored in the produced water tanks. Please
clarify this discrepancy. – Archie bench has (1) 400bbl and (2) 300bbl condensate tanks. Similar to the
Bitter Creek station, Archie Bench station has both condensate tanks and a blowcase system. Condensate
can be stored or sent through the blowcase.

• □ □ □ □ □ □ □ □ The application indicates there are three H2S air strippers at the facility. Please send me a sentence or two about how these units fit in to the facility operations that I can include in the process description. Please verify that there are no emissions associated with these units (nothing in PTE tables). Archie Bench compressor station has three gas to liquid H2S scrubbers. Each scrubber consists of a vertical vessel where gas is introduced to a H2S scavenger liquid that removes H2S from the gas stream prior to it being sent to the a gas plant. There is no PTE associated with these scrubbers.

## Sage Grouse (requested on 11/15)

• The application request a CO control requirement of 93% for engine SGG Gen 3 in accordance with the consent decree. However, this engine is only 125 hp and therefore doesn't appear to subject to the consent decree requirements in paragraph 41 and 50 for engines > 500 hp. The application also states this engine is subject to NSPS JJJJ. Please verify you are requesting the same control requirements (oxidation catalyst with 93% reduction) for SGG Gen 3 as the other 5

- engines. The generator is applicable to NSPS JJJJ so it should not have the same requirements as the 5 compressor engines at the facility.
- Please provide the capacity of the 3 condensate/produced water tanks. The tank size is not in the application. Each tank is 400bbl
- The application indicates there are three H2S air strippers at the facility. Please send me a sentence or two about how these units fit in to the facility operations that I can include in the process description. Please verify that there are no emissions associated with these units (nothing in PTE tables). Sage Grouse compressor station has three gas to liquid H2S scrubbers. Each scrubber consists of a vertical vessel where gas is introduced to a H2S scavenger liquid that removes H2S from the gas stream prior to it being sent to the a gas plant. There is no PTE associated with these scrubbers.

From: Wortman, Eric

Sent: Wednesday, November 15, 2017 11:32 AM

To: 'natalie.ohlhausen@anadarko.com' < natalie.ohlhausen@anadarko.com>

Cc: Smith, Claudia < Smith.Claudia@epa.gov > Subject: Syn Minor NSR Permit - Sage Grouse CS

Hi Natalie.

I've reviewed the synthetic minor permit application for the Sage Grouse CS and have a few questions. Thanks – Eric

- 1. The application request a CO control requirement of 93% for engine SGG Gen 3 in accordance with the consent decree. However, this engine is only 125 hp and therefore doesn't appear to subject to the consent decree requirements in paragraph 41 and 50 for engines > 500 hp. The application also states this engine is subject to NSPS JJJJ. Please verify you are requesting the same control requirements (oxidation catalyst with 93% reduction) for SGG Gen 3 as the other 5 engines.
- 2. Please provide the capacity of the 3 condensate/produced water tanks. The tank size is not in the application.
- 3. The application indicates there are three H2S air strippers at the facility. Please send me a sentence or two about how these units fit in to the facility operations that I can include in the process description. Please verify that there are no emissions associated with these units (nothing in PTE tables).

Eric Wortman | Environmental Scientist

U.S. Environmental Protection Agency

Telephone: (617) 918-1624 | Email: wortman.eric@epa.gov

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